

**DC-FREE CODE HAVING LIMITED ERROR PROPOGATION AND  
LIMITED COMPLEXITY****ABSTRACT OF THE DISCLOSURE**

A method and apparatus are provided for encoding and decoding digital information. A sequence of data words is received, wherein each data word has a running digital sum (RDS). The sequence of data words is encoded into a sequence of corresponding code words, which has a current RDS. For each data word a binary symbol is added to the data word and the data word is selectively complemented as a function of the RDS of the data word and the current RDS of the sequence of code words to form the corresponding code word.